

### IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A beneficial material for medical application in association with a substrate comprising:

- a support material; and

- a reactive material associated with the support material, said reactive material effective to react with a contaminant;

wherein the reactive material is selected from the group comprising water insoluble peroxides and water insoluble excess oxygen containing compounds.

2. (Previously presented) The beneficial material of claim 1 wherein the support material comprises one of the group consisting of: ionomers, anion exchange membranes, cation exchange membranes, sodium super ionic conductors and semi-permeable polymer membranes.

3. (Original) The beneficial material of claim 1 wherein a substrate may comprise one of the group consisting of: formulations in a paste, putty, epoxy, adhesive, glue, spray or tar form for topical application, wound healing devices, prosthetic devices and other implantable devices.

4. (Original) The beneficial material of claim 1 wherein the water insoluble peroxides comprise one of the group consisting of:  $\text{MgO}_2$ ,  $\text{BaO}_2$ ,  $\text{SnO}_2$ ,  $\text{AgO}$ ,  $\text{CaO}_2$ ,  $\text{CuO}_2$  and  $\text{ZnO}_2$ .

5. (Previously presented) The beneficial material of claim 1 wherein the water insoluble

excess oxygen containing compounds comprise one of the group consisting of perovskites of

$\text{La}_2\text{NiO}_{4+\delta}$ ,  $\text{La}_2\text{CuO}_{4+\delta}$ ,  $\text{CeNiO}_{4+\delta}$ , and  $\text{Ce}_2\text{CuO}_{4+\delta}$ .

6. (Currently amended) A wound healing device comprising:

- a substrate capable of association with a wound of a human or other animal; and
- a reactive material associated with the substrate, said reactive material effective to react with a contaminant, and wherein the reactive material is selected from the group comprising comprises water insoluble peroxides and water insoluble excess oxygen containing compounds.

7. (Original) The wound healing device of claim 6 wherein the substrate comprises one of a woven pad and a gauze pad.

8. (Currently amended) A method of incorporating a beneficial material to a fluid or semi-solid substrate comprising the steps of:

- providing a fluid or semi solid substrate;
- providing the beneficial material; and
- mixing the beneficial material within the substrate, wherein the beneficial material is effective to react with a contaminant and wherein the beneficial agent is selected from the group comprising water insoluble peroxides and water insoluble excess oxygen containing compounds.

9. (Original) The method of claim 8 further comprising the step of granulating the beneficial material.

10. (Original) The method of claim 9 wherein the substrate may comprise one of the group consisting of paint, epoxy, adhesive, glue and tar.

11. (Withdrawn) The beneficial material of claim 1, wherein the reactive material is a photoactive material.

12. (Withdrawn) The beneficial material of claim 11, wherein the reactive material comprises one of the group consisting of  $\text{TiO}_2$ , Titanates,  $\text{Fe}_2\text{O}_3$ , compounds of  $\text{Fe}_2\text{O}_3$ , Vanadium pentoxide and vandates, Tin oxides and stannates,  $\text{NbO}_2$  and Niobates,  $\text{TiO}_2$  and  $\text{NbO}_2$  solid solutions,  $\text{Bi}_2\text{O}_3$  and bismuth chalcogenides, Silicon and Germanium doped with p-type and n-type impurities, P-N junctions of semiconductors, Photovoltaic materials, Zinc chalcogenides, Zinc oxides, and Zinc phosphides, and combinations thereof.

13. (Withdrawn) The beneficial material of claim 11, wherein the reactive material comprises an anatase structure.

14. (Withdrawn) The beneficial material of claim 13, wherein the reactive material is  $\text{TiO}_2$ .

15. (New) A beneficial material for medical application in association with a substrate comprising:

- a support material; and
- a reactive material associated with the support material,

wherein the reactive material comprises at least one water insoluble peroxide chosen

from  $\text{MgO}_2$ ,  $\text{BaO}_2$ ,  $\text{SnO}_2$ ,  $\text{AgO}$ ,  $\text{CaO}_2$ ,  $\text{CuO}_2$  and  $\text{ZnO}_2$ .

16. (New) A beneficial material for medical application in association with a substrate comprising:

- a support material; and
- a reactive material associated with the support material,

wherein the reactive material comprises at least one water insoluble excess oxygen containing compound chosen from perovskites of  $\text{La}_2\text{NiO}_{4+\delta}$ ,  $\text{La}_2\text{CuO}_{4+\delta}$ ,  $\text{CeNiO}_{4+\delta}$ , and  $\text{Ce}_2\text{CuO}_{4+\delta}$ .

17. (New) A wound healing device comprising:

- a substrate capable of association with a wound of a human or other animal; and
- a reactive material associated with the substrate, wherein the reactive material

comprises at least one water insoluble peroxide chosen from  $\text{MgO}_2$ ,  $\text{BaO}_2$ ,  $\text{SnO}_2$ ,  $\text{AgO}$ ,  $\text{CaO}_2$ ,  $\text{CuO}_2$  and  $\text{ZnO}_2$ .

18. (New) A wound healing device comprising:

- a substrate capable of association with a wound of a human or other animal; and
- a reactive material associated with the substrate, wherein the reactive material

comprises at least one water insoluble excess oxygen containing compound chosen from perovskites of  $\text{La}_2\text{NiO}_{4+\delta}$ ,  $\text{La}_2\text{CuO}_{4+\delta}$ ,  $\text{CeNiO}_{4+\delta}$ , and  $\text{Ce}_2\text{CuO}_{4+\delta}$ .

19. (New) A method of incorporating a beneficial material to a fluid or semi-solid substrate

comprising the steps of:

- providing a fluid or semi solid substrate;
- providing the beneficial material; and
- mixing the beneficial material within the substrate, wherein the beneficial material

comprises at least one water insoluble peroxide chosen from  $\text{MgO}_2$ ,  $\text{BaO}_2$ ,  $\text{SnO}_2$ ,  $\text{AgO}$ ,  $\text{CaO}_2$ ,  $\text{CuO}_2$  and  $\text{ZnO}_2$ .

20. (New) A method of incorporating a beneficial material to a fluid or semi-solid substrate comprising the steps of:

- providing a fluid or semi solid substrate;
- providing the beneficial material; and
- mixing the beneficial material within the substrate, wherein the beneficial material

comprises at least one water insoluble excess oxygen containing compound chosen from perovskites of  $\text{La}_2\text{NiO}_{4+\delta}$ ,  $\text{La}_2\text{CuO}_{4+\delta}$ ,  $\text{CeNiO}_{4+\delta}$ , and  $\text{Ce}_2\text{CuO}_{4+\delta}$ .